

**APPLICATION FOR UNITED STATES PATENT
DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name; that

I verily believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: A TUNNEL MAGNETORESISTIVE EFFECTIVE ELEMENT, A THIN FILM MAGNETIC HEAD, A MAGNETIC HEAD DEVICE AND A MAGNETIC DISK DRIVE DEVICE described and claimed in the specification:

Check one

- *a. attached hereto
b. filed on _____ as Application No. _____ and amended on _____ (if applicable).

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose to the Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

Under Title 35, U.S. Code §119, the priority benefits of the following foreign application(s) and/or United States provisional application(s) filed within one year prior to this application are hereby claimed:

Japanese Patent Application No. 2000-118,447 filed on April 19, 2000

The following application(s) for patent or inventor's certificate on this invention were filed in countries foreign to the United States of America either (a) more than one year prior to this application, or (b) before the filing date of the above-named foreign priority application(s) and/or United States provisional application(s):

I hereby appoint the following as my attorneys of record with full power of substitution and revocation to prosecute this application and to transact all business in the Patent Office:

James A. Oliff, Reg. No. 27,075; William P. Berridge, Reg. No. 30,024;
Kirk M. Hudson, Reg. No. 27,562; Thomas J. Pardini, Reg. No. 30,411;
Edward P. Walker, Reg. No. 31,450; Robert A. Miller, Reg. No. 32,771;
Mario A. Costantino, Reg. No. 33,565; and Caroline D. Dennison, Reg. No. 34,494.

**ALL CORRESPONDENCE IN CONNECTION WITH THIS APPLICATION SHOULD BE SENT TO OLIFF & BERRIDGE,
PLC, P.O. BOX 19928, ALEXANDRIA, VIRGINIA 22320, TELEPHONE (703) 836-6400.**

I hereby declare that I have reviewed and understand the contents of this Declaration, and that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

1	Typewritten Full Name of First or Sole Inventor	Koji	SHIMAZAWA
2	Given Name	Middle Initial	Family Name
3	Koji	Shimazawa	
	March	27,	2001
	Month	Day	Year
	Chuo-Ku,	Tokyo,	Japan
	City	State or Province	Country
	Japan		
	Post Office Address: (Insert complete mailing address, including country)	c/o TDK CORPORATION, 13-1, Nihonbashi 1-Chome, Chuo-Ku, Tokyo, Japan	

*If Box (a.) is checked, this form may be executed only when attached to the specification (including claims).

**Note to Inventor: Please sign name exactly as it appears above and insert actual date of signing.

IF THERE IS MORE THAN ONE INVENTOR USE PAGE 2 AND PLACE AN "X" HERE

2
2 OF U.S.A. DECLARATION FORM
(Discard this page in a sole inventor application)

1	Typewritten Full Name of Second Joint Inventor (if any)	Tsuyoshi	UMEHARA
		Given Name	Middle Initial
2	**Inventor's Signature:	<i>Tsuyoshi Umehara</i>	
3	**Date of Signature:	March	27, 2001
	Residence:	Month Chuo-Ku,	Day Tokyo, Year Japan
	Citizenship:	City Japan	State or Province Country
	Post Office Address: (Insert complete mailing address, including country)	c/o TDK CORPORATION, 13-1, Nihonbashi 1-Chome, Chuo-Ku, Tokyo, Japan	
1	Typewritten Full Name of Third Joint Inventor (if any)	Satoru	ARAKI
		Given Name	Middle Initial
2	**Inventor's Signature:	<i>Satoru</i>	
3	**Date of Signature:	March	27, 2001
	Residence:	Month Chuo-Ku,	Day Tokyo, Year Japan
	Citizenship:	City Japan	State or Province Country
	Post Office Address: (Insert complete mailing address, including country)	c/o TDK CORPORATION, 13-1, Nihonbashi 1-Chome, Chuo-Ku, Tokyo, Japan	
	Typewritten Full Name of Fourth Joint Inventor (if any)	Given Name	Middle Initial
	**Inventor's Signature:		
	**Date of Signature:	Month	Day
	Residence:	City	State or Province
	Citizenship:	State or Province	Country
	Post Office Address: (Insert complete mailing address, including country)		
1	Typewritten Full Name of Fifth Joint Inventor (if any)	Given Name	Middle Initial
	**Inventor's Signature:		
3	**Date of Signature:	Month	Day
	Residence:	City	State or Province
	Citizenship:	State or Province	Country
	Post Office Address: (Insert complete mailing address, including country)		

****Note to Inventors:** Please sign name exactly as it appears and insert the actual date of signing.
This form may be executed only when attached to the first page of the Declaration and Power of Attorney form of the application to which it pertains.